

Amendments to the Claims

1. (currently amended) A radio frequency band reject filter comprising a shunt acoustic resonator and a series acoustic resonator, the shunt resonator being arranged to resonate generally at the reject frequency band and the series resonator being arranged to ~~anti-resonant~~ anti-resonate generally at the reject frequency band, wherein the resonators are arranged such that there is substantially no acoustic resonance over a predetermined pass band.
2. (currently amended) A radio frequency filter according to claim 1, comprising a plurality of shunt acoustic resonators each arranged to resonate generally at the reject frequency band and a plurality of series acoustic resonators each arranged to ~~anti-resonant~~ anti-resonate generally at the reject frequency band, the shunt and series acoustic resonators being arranged in a ladder configuration.
3. (original) A radio frequency band reject filter according to claim 1, wherein the shunt and series acoustic resonators are each formed as an array of a plurality of serially and parallel connected resonators.
4. (original) A radio frequency filter according to claim 2, wherein the acoustic resonators are one port devices.
5. (original) A radio frequency filter according to claim 2, wherein the acoustic resonators are surface acoustic wave resonators.
6. (original) A radio frequency filter according to claim 2, wherein the acoustic resonators are thin film bulk acoustic resonators.

7. (original) A radio frequency filter according to claim 2, further including a high Q matching network arranged to reduce the apparent capacitance of the filter outside the reject frequency band.
8. (currently amended) A base station power amplifier for a cellular radio network, the power amplifier including at least one inter-stage band reject filter comprising a shunt acoustic resonator and a series acoustic resonator, the shunt resonator being arranged to resonate generally at the reject frequency band and the series resonator being arranged to ~~anti-resonant~~ anti-resonate generally at the reject frequency band, wherein the resonators are arranged such that there is substantially no acoustic resonance over a predetermined pass band.
9. (original) A power amplifier filter according to claim 8, wherein the acoustic resonators are one port devices.
10. (currently amended) A power amplifier filter according to claim 8, wherein the acoustic resonators are surface acoustic wave resonators.
11. (original) A power amplifier filter according to claim 8, wherein the acoustic resonators are thin film bulk acoustic resonators.
12. (currently amended) A duplexer for a mobile telephone handset including an radio frequency band reject filter comprising a shunt acoustic resonator and a series acoustic resonator, the shunt resonator being arranged to resonate generally at the reject frequency band and the series resonator being arranged to ~~anti-resonant~~ anti-resonate generally at the reject frequency band, wherein the resonators are arranged such that there is substantially no acoustic resonance over a predetermined pass band.

13. (original) A duplexer according to claim 12, wherein the acoustic resonators are one port devices.
14. (original) A duplexer according to claim 12, wherein the acoustic resonators are surface acoustic wave resonators.
15. (currently amended) A duplexer according to claim 12, wherein the acoustic resonators are thin film bulk acoustic resonators.
16. (currently amended) A low noise amplifier input stage including a band reject filter comprising a shunt acoustic resonator and a series acoustic resonator, the shunt resonator being arranged to resonate generally at the reject frequency band and the series resonator being arranged to ~~anti-resonant~~ anti-resonate generally at the reject frequency band, wherein the resonators are arranged such that there is substantially no acoustic resonance over a predetermined pass band.
17. (original) An input stage according to claim 16, wherein the acoustic resonators are one port devices.
18. (original) An input stage according to claim 16, wherein the acoustic resonators are surface acoustic wave resonators.
19. (original) An input stage according to claim 16, wherein the acoustic resonators are thin film bulk acoustic resonators.